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ANTONELLI, TERRY, STOUT & KRAUS, LLP 1300 NORTH SEVENTEENTH STREET SUITE 1800			EXAMINER		
			PHAM, HUNG Q		
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Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application	No.	Applicant(s)					
	09/769,270	)	SHIMA ET AL.					
Office Action Summary	Examiner		Art Unit					
	HUNG Q P	HAM	2172					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM								
THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).  Status								
1) Responsive to communication(s) filed on 30 J	<u>lune 2003</u> .							
2a)⊠ This action is <b>FINAL</b> . 2b)□ Th	is action is r	ion-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Disposition of Claims  4)⊠ Claim(s) 1-11 is/are pending in the application								
,— ,, <u>—</u> , ,		sideration						
4a) Of the above claim(s) is/are withdrawn from consideration.								
5)  Claim(s) is/are allowed. 6)  Claim(s) <u>1-11</u> is/are rejected.								
<u>,                                     </u>								
7) Claim(s) is/are objected to.  8) Claim(s) are subject to restriction and/or election requirement.								
Application Papers	r cicciion re	quirornom.						
9) The specification is objected to by the Examine	r.							
10) The drawing(s) filed on is/are: a) □ accep	oted or b) 🔲 o	bjected to by the Exar	niner.					
Applicant may not request that any objection to the	e drawing(s) t	oe held in abeyance. Se	ee 37 CFR 1.85(a).					
11)☐ The proposed drawing correction filed on	_ is: a) <u></u> ap	proved b)⊡ disappro	ved by the Examine	er.				
If approved, corrected drawings are required in rep	oly to this Offi	ce action.						
12) The oath or declaration is objected to by the Ex	aminer.							
Priority under 35 U.S.C. §§ 119 and 120								
13) Acknowledgment is made of a claim for foreign	priority und	ler 35 U.S.C. § 119(a)	)-(d) or (f).					
a) ☐ All b) ☐ Some * c) ☐ None of:								
<ol> <li>Certified copies of the priority documents</li> </ol>	s have been	received.						
<ol><li>Certified copies of the priority documents</li></ol>	s have been	received in Application	on No					
<ul> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>								
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).								
a) The translation of the foreign language provisional application has been received.  15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.								
Attachment(s)								
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)			(PTO-413) Paper No( Patent Application (PTO	-				

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#### **DETAILED ACTION**

### Response to Arguments

1. Applicant's arguments with respect to claims 1-11 have been considered but are most in view of the new ground(s) of rejection.

## Claim Rejections - 35 USC § 112

2. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

3. Claims 1, 4 and 9 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

Regarding to claims 1, 4 and 9, a management facility for managing a readout of said unit of data common to said storages was claimed. However, the limitations, responds to a unit name of data received from said host from one of said storages upon reception of the unit name of said data from said host, as in claim 4, responds to a file name in said first format from one of said storages upon reception of file name in said first format from said host, and claim 9, responds to a file name and data received form said host from

one of said storages upon reception of the file name of said data from said host were not described in the specification.

### Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

5. Claims 1-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over O'Connor [USP 6,564,228 B1] in view of Dang et al. [USP 5,446,855].

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Regarding to claim 1, O'Connor teaches a network file system and method wherein a storage area network Universal File System allows any host in a heterogeneous based storage area network to read or write data as if in its native format (Abstract). As shown in FIG. 4 is a storage area network includes Universal File System (UVFS) storage devices 420, type A storage device 422, type B storage device 424, type A hosts 402 and 406, and type B hosts 404 and 408. Type A host 402 and type B host 404 both include universal file system mechanisms 410 and 412, respectively. The file system of the UVFS storage devices 420 is not compatible with the file systems of type A hosts 402 and 406, or type B hosts 404 and 406. Also, the file system of type A hosts 402 and 406 is not compatible with the file systems of type B hosts 404 and 408 (FIG. 4, Col. 5, lines 14-31). To enable a host to utilize a universal file system, software may be installed as part of the operating system of a host, which allows it to mount the universal file system. Once mounted, data may be read from and written to the file system. When a client mounts a directory on a server, that directory and subdirectories become part of the client's directory hierarchy. Each platform may have its own enabling software package. With a universal file system, each platform need only create a package for accessing the universal file system and can be assured of being able to share data with other platforms, which are enabled in like manner (Col. 6, lines 23-38). As seen, once mounted to the universal file system by utilizing the software, a directory, subdirectory, or a file under a directory or subdirectory in a particular file system as a unit of data specific to an operating system, such as type A, is converted to a type that common to the UVFS file system. In other words, the O'Connor

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software performs the function of a converter facility for converting a unit of data specific to an operating system on said host into a unit of data common to said storages. As shown in as in FIG. 4. UVFS mechanism 410 is configured such that type A host 402 sees data stored on the UVFS storage devices 420 as if it were stored in a format compatible with its own type A format (Col. 5, lines 47-53). A universal permissions scheme modeled after the Unix scheme is used in a universal file system to ensure data security and integrity. For example, when configuring a host for a SAN universal file system, a listing of the permissions mask for a file may be "Urwxr-x-x". In this case, the first character indicates this is a universal file system and should be treated as such. Each user may have one or more of the following permissions: read access, write access, or execute access. When a user attempts to access a file, the operating system first identifies which type of user is making the request, then checks the permissions for that user to determine if access is granted (Col. 6, line 48-Col. 7, line 18). Thus, a type A host 402 of FIG. 4 as a host from one of said storages accesses a file in Unix scheme modeled UVFS 420 by conventionally specifying the file name with UNIX commands, upon the file name reception, the system responses by displaying the file in a format compatible with its own type as a readout for reading, modifying or executing. In short, this technique indicates a management facility for managing a readout of said unit of data common to said storages which responds to a unit name of data received from said host from one of said storages upon reception of the unit name of said data from said host. FIG. 12 is a RAID storage device for storing data, which includes disk arrays 1100A and 1100B. O'Connor fails to teach a controller for allocating a data which is transferred through said

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data transfer network to a virtual space and storing said data allocated to the virtual space in said storage device. Dang teaches a system for managing I/O request directed to a disk array (Dang, abstract). As shown in Dang FIG. 2 is a RAID storage device 26 with a plurality of disk array. As shown in FIG. 1, when the processing unit 12 executes an instruction within the application program 19 corresponding to an I/O operation, control is transferred to the operating system 18 (Dang, Col. 6, lines 39-42), which couples to virtual disk driver 16 includes a data storage 17 for storing data that will be transferred to or read from the disk array 26 as in Dang FIG. 3 (Dang, Col. 6, lines 58-14). The request is broken into one or more sub-requests (Dang, Col. 7, lines 15-16), and stored in a pending queue (Dang, Col. 8, lines 14-15). If the request is a write request (Dang, FIG. 7A, step 204), the data are written into appropriate disk drives 29 (Dang, FIG. 9B, step 438, Col. 15, lines 21-33). As seen, the Dang technique indicates a controller for allocating a data which is transferred through said data transfer network to a virtual space and storing said data allocated to the virtual space in said storage device. Therefore, it would have been obvious for one of ordinary skill in the art at the time the invention was made to modify the O'Connor network file system by including a controller for allocating data to a virtual space before storing in storage device as taught by Dang in order to minimize the amount of time required for performing read write operation in RAID storage device of storage area network Universal File System.

Regarding to claim 4, O'Connor teaches a network file system and method wherein a storage area network Universal File System allows any host in a

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heterogeneous based storage area network to read or write data as if in its native format (Abstract). As shown in FIG. 4 is a storage area network includes Universal File System (UVFS) storage devices 420, type A storage device 422, type B storage device 424, type A hosts 402 and 406, and type B hosts 404 and 408. Type A host 402 and type B host 404 both include universal file system mechanisms 410 and 412, respectively. The file system of the UVFS storage devices 420 is not compatible with the file systems of type A hosts 402 and 406, or type B hosts 404 and 406. Also, the file system of type A hosts 402 and 406 is not compatible with the file systems of type B hosts 404 and 408 (FIG. 4, Col. 5, lines 14-31). To enable a host to utilize a universal file system, software may be installed as part of the operating system of a host, which allows it to mount the universal file system. Once mounted, data may be read from and written to the file system. When a client mounts a directory on a server, that directory and subdirectories become part of the client's directory hierarchy. Each platform may have its own enabling software package. With a universal file system, each platform need only create a package for accessing the universal file system and can be assured of being able to share data with other platforms, which are enabled in like manner (Col. 6, lines 23-38). As seen, once mounted to the universal file system by utilizing the software, a directory, subdirectory, or a file under a directory or subdirectory in a particular file system such as type A, is converted to a type that common to the UVFS file system. In other words, the O'Connor software performs the function of a converter facility for converting files in a first format having a file format specific to an operating system on said host into files in a second format having a file format common to said storages. As in

FIG. 4, UVFS mechanism 410 is configured such that type A host 402 sees data stored on the UVFS storage devices 420 as if it were stored in a format compatible with its own type A format (Col. 5, lines 47-53). A universal permissions scheme modeled after the Unix scheme is used in a universal file system to ensure data security and integrity. For example, when configuring a host for a SAN universal file system, a listing of the permissions mask for a file may be "Urwxr-x-x". In this case, the first character indicates this is a universal file system and should be treated as such. Each user may have one or more of the following permissions: read access, write access, or execute access. When a user attempts to access a file, the operating system first identifies which type of user is making the request, then checks the permissions for that user to determine if access is granted (Col. 6, line 48-Col. 7, line 18). Thus, a type A host 402 of FIG. 4 as a host from one of said storages accesses a file in Unix scheme modeled UVFS 420 by conventionally specifying the file name with UNIX commands, upon the file name reception, the system responses by displaying the file in a format compatible with its own type as a readout for reading, modifying or executing. In short, this technique indicates a management facility for managing a readout of files in said second format which is responds to a file name in said first format from one of said storages upon reception of file name in said first format from said host. FIG. 12 is a RAID storage device for storing data, which includes disk arrays 1100A and 1100B. O'Connor fails to teach a controller for allocating a data which is transferred through said data transfer network to a virtual space and storing said data allocated to the virtual space in said storage device. Dang teaches a system for managing I/O request directed to a disk array (Dang, abstract). As shown in

Dang FIG. 2 is a RAID storage device 26 with a plurality of disk array. As shown in FIG. 1, when the processing unit 12 executes an instruction within the application program 19 corresponding to an I/O operation, control is transferred to the operating system 18 (Dang, Col. 6, lines 39-42), which couples to virtual disk driver 16 includes a data storage 17 for storing data that will be transferred to or read from the disk array 26 as in Dang FIG. 3 (Dang, Col. 6, lines 58-14). The request is broken into one or more subrequests (Dang, Col. 7, lines 15-16), and stored in a pending queue (Dang, Col. 8, lines 14-15). If the request is a write request (Dang, FIG. 7A, step 204), the data are written into appropriate disk drives 29 (Dang, FIG. 9B, step 438, Col. 15, lines 21-33). As seen, the Dang technique indicates a controller for allocating a data which is transferred through said data transfer network to a virtual space and storing said data allocated to the virtual space in said storage device. Therefore, it would have been obvious for one of ordinary skill in the art at the time the invention was made to modify the O'Connor network file system by including a controller for allocating data to a virtual space before storing in storage device as taught by Dang in order to minimize the amount of time required for performing read write operation in RAID storage device of storage area network Universal File System.

Regarding to claim 6, O'Connor teaches a network file system and method wherein a storage area network Universal File System allows any host in a heterogeneous based storage area network to read or write data as if in its native format (Abstract). As shown in FIG. 4 is a storage area network includes Universal File

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System (UVFS) storage devices 420, type A storage device 422, type B storage device 424, type A hosts 402 and 406, and type B hosts 404 and 408. Type A host 402 and type B host 404 both include universal file system mechanisms 410 and 412. respectively. The file system of the UVFS storage devices 420 is not compatible with the file systems of type A hosts 402 and 406, or type B hosts 404 and 406. Also, the file system of type A hosts 402 and 406 is not compatible with the file systems of type B hosts 404 and 408 (FIG. 4, Col. 5, lines 14-31). As seen, the O'Connor storage area network indicates a host for obtaining files from said storages; a server for managing files present apart form said host. To enable a host to utilize a universal file system, software may be installed as part of the operating system of a host, which allows it to mount the universal file system. Once mounted, data may be read from and written to the file system. When a client mounts a directory on a server, that directory and subdirectories become part of the client's directory hierarchy. Each platform may have its own enabling software package. With a universal file system, each platform need only create a package for accessing the universal file system and can be assured of being able to share data with other platforms, which are enabled in like manner (Col. 6, lines 23-38). As seen, once mounted to the universal file system by utilizing the software, a directory, subdirectory, or a file under a directory or subdirectory in a particular file system such as type A, is converted to a type that common to the UVFS file system. In other words, the O'Connor software performs the function of a converter facility for converting files of a format specific to an operating system on said host into a generic format file having a format of significance common to said storages. As in FIG. 4, UVFS mechanism 410 is configured

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such that type A host 402 sees data stored on the UVFS storage devices 420 as if it were stored in a format compatible with its own type A format (Col. 5, lines 47-53). A universal permissions scheme modeled after the Unix scheme is used in a universal file system to ensure data security and integrity. For example, when configuring a host for a SAN universal file system, a listing of the permissions mask for a file may be "Urwxr-xx". In this case, the first character indicates this is a universal file system and should be treated as such. Each user may have one or more of the following permissions: read access, write access, or execute access. When a user attempts to access a file, the operating system first identifies which type of user is making the request, then checks the permissions for that user to determine if access is granted (Col. 6, line 48-Col. 7, line 18). Thus, under a UVFS file specified by a conventional file name is a list of permissions mask. A type A host 402 of FIG. 4 accesses the file in Unix scheme modeled UVFS 420 by conventionally specifying the file name with UNIX commands, upon the file name reception, the system responses by displaying the file at the host 402 in a format compatible with its own type for reading, modifying or executing based on access permission. In short, this technique indicates server manages the transmission of said files on said storages to said host upon reception of access permission request from said host to said files under the name of said common format file. FIG. 12 is a RAID storage device for storing data, which includes disk arrays 1100A and 1100B. O'Connor fails to teach a controller for allocating a data which is transferred through said data transfer network to a virtual space and storing said data allocated to the virtual space in said storage device. Dang teaches a system for managing I/O request directed to a disk array (Dang,

abstract). As shown in Dang FIG. 2 is a RAID storage device 26 with a plurality of disk array. As shown in FIG. 1, when the processing unit 12 executes an instruction within the application program 19 corresponding to an I/O operation, control is transferred to the operating system 18 (Dang, Col. 6, lines 39-42), which couples to virtual disk driver 16 includes a data storage 17 for storing data that will be transferred to or read from the disk array 26 as in Dang FIG. 3 (Dang, Col. 6, lines 58-14). The request is broken into one or more sub-requests (Dang, Col. 7, lines 15-16), and stored in a pending queue (Dang, Col. 8, lines 14-15). If the request is a write request (Dang, FIG. 7A, step 204), the data are written into appropriate disk drives 29 (Dang, FIG. 9B, step 438, Col. 15, lines 21-33). As seen, the Dang technique indicates a controller for allocating a data which is transferred through said data transfer network to a virtual space and storing said data allocated to the virtual space in said storage device. Therefore, it would have been obvious for one of ordinary skill in the art at the time the invention was made to modify the O'Connor network file system by including a controller for allocating data to a virtual space before storing in storage device as taught by Dang in order to minimize the amount of time required for performing read write operation in RAID storage device of storage area network Universal File System.

Regarding to claim 9, O'Connor teaches a network file system and method wherein a storage area network Universal File System allows any host in a heterogeneous based storage area network to read or write data as if in its native format (Abstract). As shown in FIG. 4 is a storage area network includes Universal File

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System (UVFS) storage devices 420, type A storage device 422, type B storage device 424, type A hosts 402 and 406, and type B hosts 404 and 408. Type A host 402 and type B host 404 both include universal file system mechanisms 410 and 412, respectively. The file system of the UVFS storage devices 420 is not compatible with the file systems of type A hosts 402 and 406, or type B hosts 404 and 406. Also, the file system of type A hosts 402 and 406 is not compatible with the file systems of type B hosts 404 and 408 (FIG. 4, Col. 5, lines 14-31). To enable a host to utilize a universal file system, software may be installed as part of the operating system of a host, which allows it to mount the universal file system. Once mounted, data may be read from and written to the file system. When a client mounts a directory on a server, that directory and subdirectories become part of the client's directory hierarchy. Each platform may have its own enabling software package. With a universal file system, each platform need only create a package for accessing the universal file system and can be assured of being able to share data with other platforms, which are enabled in like manner (Col. 6, lines 23-38). UVFS mechanism 410 is configured such that type A host 402 sees data stored on the UVFS storage devices 420 as if it were stored in a format compatible with its own type A format (Col. 5, lines 47-53). As seen, once mounted to the universal file system by utilizing the software, a directory, subdirectory, or a file under a directory or subdirectory in a particular file system of a host such as type A, is converted to a type that common to the UVFS file system, and data in UVFS are displayed in the host as if it were stored in a format compatible with its own type A format for reading or writing. In other words this technique indicates a host having a file system converting files in a file

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format specific to an operating system into files in a format common on said storages, and converting files in said common file format on said data transfer network into files in said file format specific to said operating system, and said host updating data in said file format specific to said operating system. As in FIG. 4, UVFS mechanism 410 is configured such that type A host 402 sees data stored on the UVFS storage devices 420 as if it were stored in a format compatible with its own type A format (Col. 5, lines 47-53). A universal permissions scheme modeled after the Unix scheme is used in a universal file system to ensure data security and integrity. For example, when configuring a host for a SAN universal file system, a listing of the permissions mask for a file may be "Urwxr-xx". In this case, the first character indicates this is a universal file system and should be treated as such. Each user may have one or more of the following permissions: read access, write access, or execute access. When a user attempts to access a file, the operating system first identifies which type of user is making the request, then checks the permissions for that user to determine if access is granted (Col. 6, line 48-Col. 7, line 18). Thus, a type A host 402 of FIG. 4 as a host from one of said storages accesses a file in Unix scheme modeled UVFS 420 by conventionally specifying the file name with UNIX commands, upon the file name reception, the system responses by displaying the file in a format compatible with its own type as a readout for reading, modifying or executing. In short, this technique indicates a management facility for managing a readout of a file common to said storages which responds to a file name and data received from said host from one of said storages upon reception of the file name of said data from said host. As shown in FIG. 12 (Cols. 9-10) is a storage having a file storage area for storing files in a

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format common to said storages. O'Connor fails to teach a virtual space for retaining file that may be transmitted and received to and from said host or another storage and that is in said format common to said storages, as well as a storage controller for asynchronously allocating said file read out from said storage area to said virtual space to transmit to said host said file in said virtual space. Dang teaches a system for managing I/O request directed to a disk array (Dang, abstract). As shown in Dang FIG. 2 is a RAID storage device 26 with a plurality of disk array. As shown in FIG. 1, when the processing unit 12 executes an instruction within the application program 19 corresponding to an I/O operation, control is transferred to the operating system 18 (Dang, Col. 6, lines 39-42), which couples to virtual disk driver 16 includes a data storage 17 for storing data that will be transferred to or read from the disk array 26 (Dang, FIG. 3, Col. 6, lines 58-14). The I/O request is broken into one or more sub-requests (Dang, Col. 7, lines 15-16), and stored in a pending queue (Dang, Col. 8, lines 14-15). If the request is a read request (Dang, FIG. 8B, step 338), an array request is created (Dang, FIG. 8A, step 312) and put in the active queue 64. The active queue is processed and if the selected array request is a read operation, the method issues the read operation to the disk array 26 to obtain the required data (Dang, Col. 14, lines 11-30). As seen, the virtual disk driver is a virtual space for retaining file that may be transmitted and received to and from said host or another storage and that is in said format common to said storages. If an I/O request is a read operation, the required data is obtained from selected arrays of RAID storage device in the active queue to store in data storage 17 for transmitting to a remote user. In other words, the Dang technique of controlling the read request indicates a storage controller

for asynchronously allocating said file read out from said storage area to said virtual space to transmit to said host said file in said virtual space. Therefore, it would have been obvious for one of ordinary skill in the art at the time the invention was made to modify the O'Connor network file system by including a controller for allocating data to a virtual space before transmitting as taught by Dang in order to minimize the amount of time required for performing read write operation in RAID storage device of storage area network Universal File System.

Regarding to claims 2 and 5, O'Connor and Dang teaches all the claim subject matters as discussed in claims 1 and 4, O'Connor further discloses unit of data specific to said operating system has an actual data section and a first control section for defining the type of data specific to said operating system, said converter facility considers the entire unit as said actual data to add to said unity of data specific to said operating system a second control section created for managing the type of data and for being common to said storages (Col. 4, line 45-Col. 5, line 13; Col. 6, line 39-Col. 7, line 18).

Regarding to claim 3, O'Connor and Dang teaches all the claimed subject matters as discussed in claim 2, O'Connor further discloses *data transfer network is a storage area network* (FIG. 4).

Regarding to claim 7, O'Connor and Dang teaches all the claimed subject matters as discussed in claim 6, O'Connor further discloses a storage for storing said

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common format files, wherein said server issues to said storage a staging request with a file operation ID added with respect to a file requested for said access permission, and sends said file operation ID on condition that any error occurs; wherein said storage stages said file in accordance with said staging request and add said file operation ID to said file, and wherein said host obtains said file by issuing a file operation request to said storage with said file operation ID added (FIG. 12, Col. 4, line 45-Col. 5, line 13; Col. 6, line 39-Col. 7, line 18).

Regarding to claim 8, O'Connor and Dang teaches all the claimed subject matters as discussed in claim 7, O'Connor further discloses *file operation ID is for use in the acknowledgment of access right of said host* (Col. 4, line 45-Col. 5, line 13; Col. 6, line 39-Col. 7, line 18).

Regarding to claim 10, O'Connor and Dang teaches all the claimed subject matters as discussed in claim 9, O'Connor further discloses data transfer network comprises a plurality of fibre switches having hosts and/or storage devices connected thereto and a storage area network for connecting these components (FIG. 4, Col. 3, line 53-Col. 4, line 2).

Regarding to claim 11, O'Connor and Dang teaches all the claimed subject matters as discussed in claim 9, O'Connor further discloses file in said file format specific to said operating system is comprised of actual data and a file control section for defining the file type thereof; and wherein said file system considers said actual data plus said file control

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section as an actual data entirely to create another file control section common to said storages, said file in said file format specific to said operating system being converted to a file in said file format common to said storage storages by adding said another control section to said file in said file format specific to said operating system (Col. 4, line 45-Col. 5, line 13; Col. 6, line 39-Col. 7, line 18).

#### Conclusion

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to HUNG Q PHAM whose telephone number is 703-605-4242. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, KIM Y VU can be reached on 703-305-4393. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3900.

Hung Pham September 12, 2003

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